

Application No.: 09/691,816

Docket No.: PMCTEC 3.0-006

Please add new claim 16, as follows:

16. (NEW) A process for the treatment of organic waste comprising the steps of:

(a) feeding organic waste to a biological reactor and subjecting said organic waste to biological digestion so as to convert at least a portion of said organic waste to a clear decant and a mixture of biosolids and unconverted organic material;

(b) contacting at least a portion of said mixture of biosolids and unconverted organic material with at least one oxidizing agent comprising an oxidizing agent generated by electrolysis in order to chemically convert said unconverted organic material in a chemical treatment unit substantially without any biological digestion of said unconverted organic material;

(c) monitoring the oxidation-reduction potential of said at least a portion of said mixture of biosolids and unconverted organic material in said chemical treatment unit and adjusting the concentration of said at least one oxidizing agent in contact with said at least a portion of said mixture to maintain said oxidation-reduction potential of said at least a portion of said mixture at greater than 0 mV so as to convert said at least a portion of said mixture to a conditioned effluent; and

(d) returning said conditioned effluent to said biological reactor.